

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P637249

Luminaire Tested: **IFLD-M-SA4E-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637249
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-830-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28609.4 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

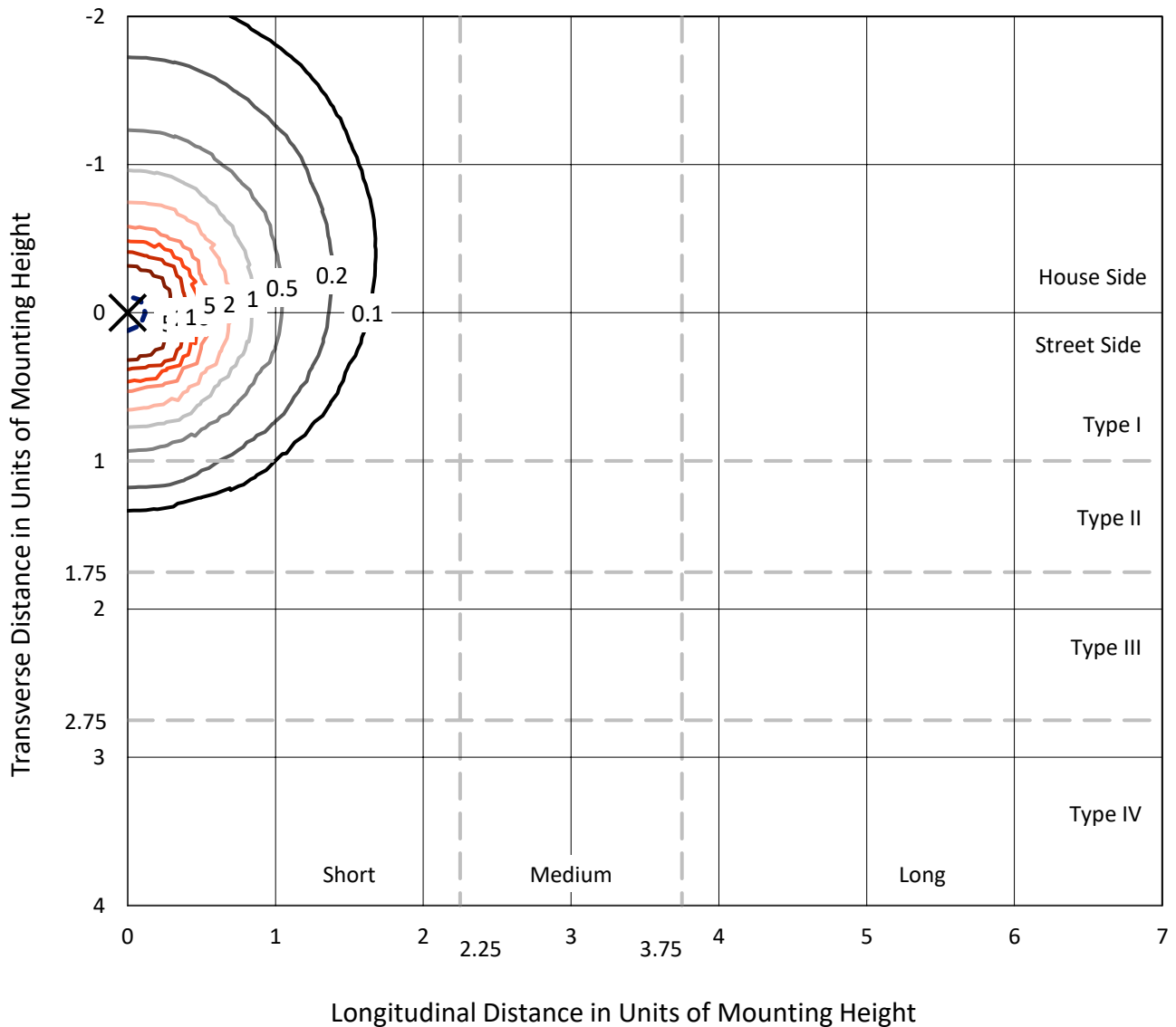
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

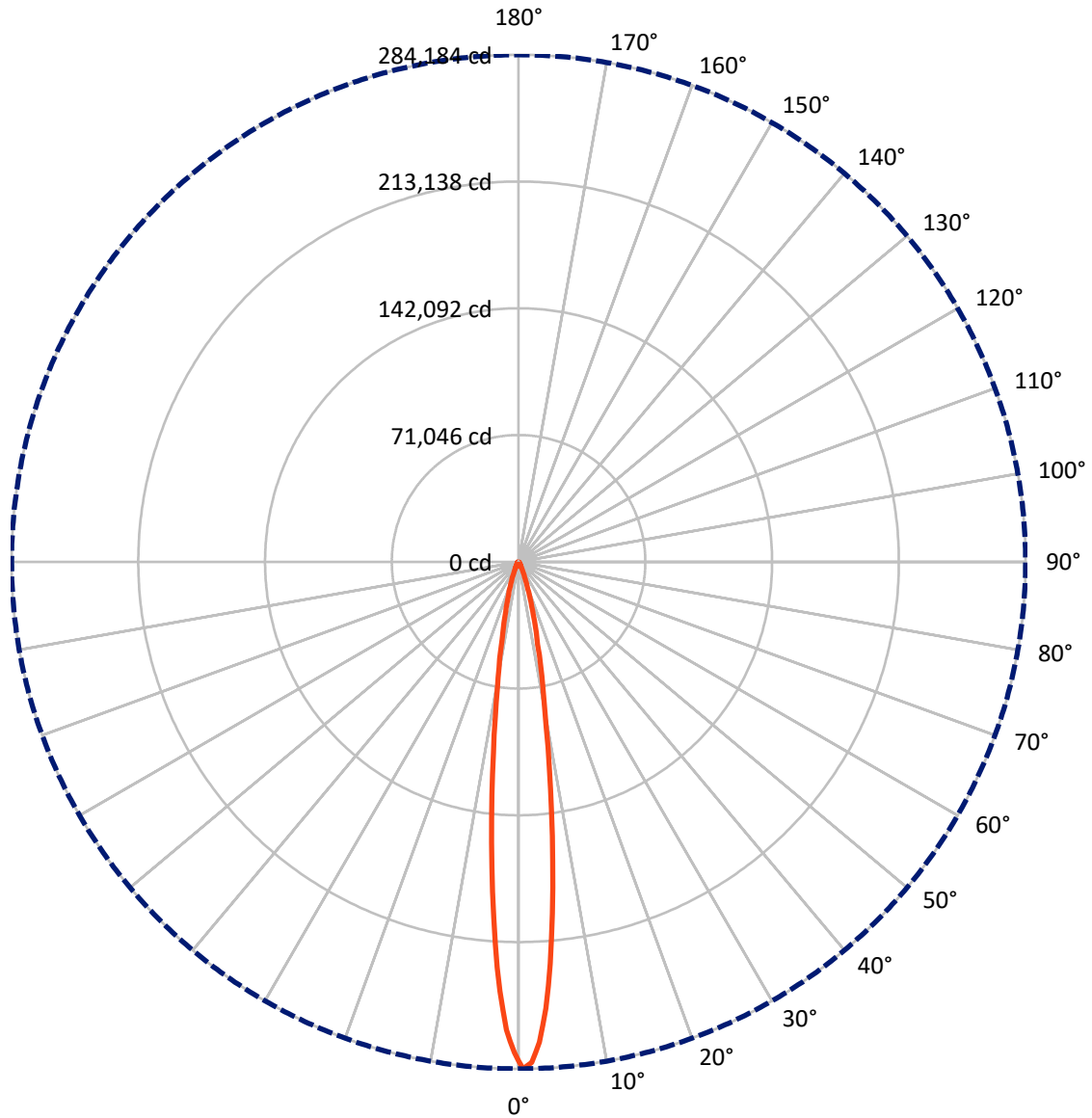
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 710.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14653.2	0.0	14653.2
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	13956.2	0.0	13956.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	28609.4	0.0	28609.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14442.9	50.5
10°-20°	9246.3	32.3
20°-30°	2779.2	9.7
30°-40°	904.9	3.2
40°-50°	526.5	1.8
50°-60°	349.7	1.2
60°-70°	210.5	0.7
70°-80°	108.2	0.4
80°-90°	41.1	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	28609.4	100.0
0°-180°	28609.4	100.0

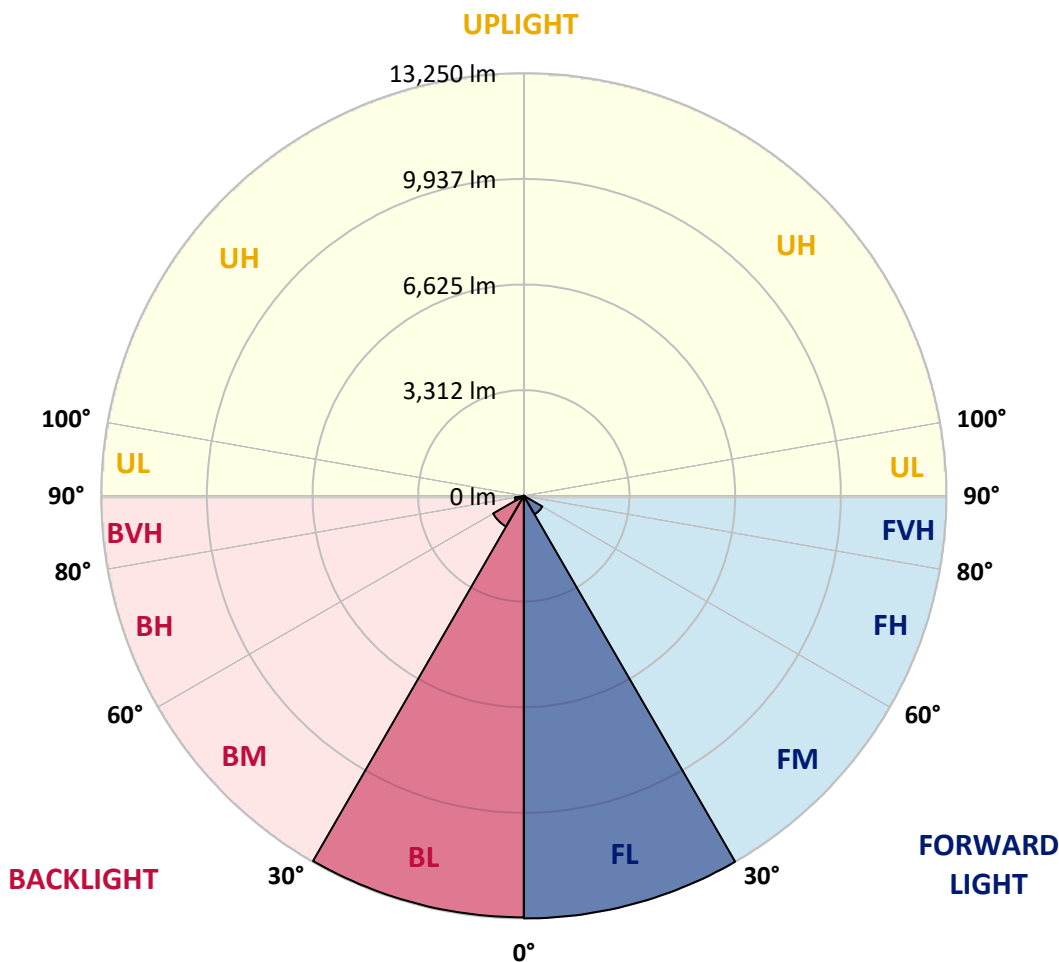


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13249.9	46.3			
FM (30°-60°)	668.6	2.3			
FH (60°-80°)	31.5	0.1			G0/660
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	13218.5	46.2	B5		
BM (30°-60°)	1112.6	3.9	B2/2500		
BH (60°-80°)	287.3	1.0	B1/500		G0/660
BVH (80°-90°)	34.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	284184.3	284184.3	284184.3	284184.3	284184.3	284184.3	284184.3	284184.3	284184.3	284184.3
1°	280781.6	279924.7	277712.3	279285.9	280669.4	280267.4	280239.4	280089.8	279881.0	281520.1
2°	269557.7	269003.0	265731.2	267080.4	269046.6	267613.3	268510.7	267722.3	267737.9	269694.8
3°	250637.2	250939.4	245720.1	248172.4	250905.2	247430.8	248508.9	250534.4	248412.3	247773.6
4°	226045.5	223421.9	220570.7	223063.5	223770.8	221748.5	223736.6	226216.9	223269.2	223400.0
5°	197970.2	196032.0	192657.4	194196.7	192442.4	193081.2	196060.1	197082.1	195025.5	192436.1
6°	169103.4	167726.1	163507.0	165725.6	165102.4	164740.9	168502.0	165386.0	166507.7	164940.4
7°	140660.3	138086.5	136014.3	138139.5	138276.6	137189.1	142071.9	141504.8	139463.8	138990.1
8°	116539.2	113971.6	112217.3	113800.2	114834.7	113127.2	115423.7	116931.8	115336.4	115479.8
9°	93994.8	93543.0	91103.1	93172.2	94297.0	92467.9	95010.6	95555.9	94063.3	94789.4
10°	77177.6	76651.0	74703.5	75541.7	77405.1	75223.9	77663.7	77841.3	76651.0	76990.7
12.5°	47693.8	47481.9	47429.0	47550.5	47525.6	47911.9	48535.1	47824.7	47731.2	46556.5
15°	30826.8	31141.5	30817.5	31440.7	31531.0	31895.6	31515.4	30942.1	29848.4	29306.2
17.5°	19238.3	19640.3	20194.9	21107.9	22020.9	22126.9	21622.1	20949.0	20419.3	19839.7
20°	11068.1	11264.4	11180.3	12274.0	14636.0	15277.9	14626.6	13919.3	13280.5	12694.7
22.5°	6877.1	6805.4	6936.3	7304.0	8073.6	10058.5	9525.7	8818.3	8354.1	7871.1
25°	4216.0	4293.9	4244.0	4446.6	4792.4	5633.8	5755.3	5449.9	5213.1	4963.8
27.5°	2714.1	2714.1	2735.9	2848.0	3084.9	3056.8	3704.9	3468.1	3340.4	3218.9
30°	1885.2	1891.4	1891.4	1956.9	2009.8	1916.4	2084.6	2390.0	2330.8	2237.3
32.5°	1399.1	1417.8	1433.4	1467.6	1424.0	1324.3	1364.8	1720.0	1685.8	1651.5
35°	1065.7	1081.3	1118.7	1137.3	1075.0	1012.7	975.3	1265.1	1280.7	1271.3
37.5°	775.9	785.2	853.8	925.5	853.8	797.7	775.9	972.2	1047.0	1037.6
40°	595.2	598.3	610.7	691.8	691.8	648.1	654.4	726.0	856.9	856.9
42.5°	511.0	511.0	523.5	511.0	514.1	560.9	576.5	585.8	726.0	726.0
45°	442.5	442.5	448.7	417.5	386.4	483.0	495.4	498.6	610.7	626.3
47.5°	370.8	370.8	383.3	342.8	327.2	383.3	417.5	426.9	526.6	539.1
50°	274.2	277.3	314.7	280.4	289.8	296.0	361.5	367.7	445.6	473.6
52.5°	183.8	183.8	190.1	218.1	252.4	243.0	292.9	314.7	355.2	392.6
55°	149.6	149.6	146.5	140.2	187.0	202.5	215.0	261.7	289.8	336.5
57.5°	102.8	109.1	99.7	115.3	121.5	152.7	162.0	205.7	221.2	283.6
60°	12.5	15.6	21.8	84.1	81.0	102.8	121.5	162.0	180.7	218.1
62.5°	3.1	3.1	6.2	15.6	56.1	68.6	96.6	112.2	130.9	168.3
65°	0.0	0.0	3.1	6.2	12.5	37.4	49.9	65.4	93.5	118.4
67.5°	0.0	0.0	3.1	6.2	6.2	15.6	24.9	40.5	49.9	87.2
70°	0.0	0.0	3.1	6.2	6.2	12.5	15.6	18.7	34.3	46.7
72.5°	0.0	0.0	3.1	6.2	9.3	12.5	15.6	15.6	15.6	31.2
75°	0.0	0.0	3.1	6.2	9.3	12.5	15.6	15.6	12.5	12.5
77.5°	0.0	0.0	3.1	6.2	12.5	15.6	18.7	15.6	9.3	9.3
80°	0.0	0.0	3.1	9.3	15.6	21.8	24.9	18.7	9.3	6.2
82.5°	0.0	0.0	6.2	12.5	18.7	24.9	34.3	28.0	12.5	6.2
85°	0.0	0.0	3.1	9.3	18.7	24.9	49.9	34.3	15.6	3.1
87.5°	0.0	0.0	0.0	3.1	3.1	6.2	18.7	12.5	6.2	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
284184.3	0°	284184.3	284184.3	284184.3	284184.3	284184.3	284184.3	284184.3	284184.3
279628.6	1°	281582.4	281778.7	281136.8	282130.8	281781.8	279737.7	279061.5	278260.7
268545.0	2°	267722.3	268722.6	268772.4	269875.5	269859.9	267476.2	266737.7	268099.4
249069.8	3°	248315.7	249481.1	248431.0	250391.0	249802.1	246910.4	246159.5	247705.0
224434.6	4°	223764.6	223543.4	223181.9	222066.4	223440.5	221468.1	219981.8	222078.8
195870.0	5°	195477.4	194985.0	194280.8	193950.5	194972.6	193710.6	190653.8	193716.8
167775.9	6°	167981.6	165862.7	165759.9	165576.0	165678.9	162145.3	162357.2	164638.1
137360.5	7°	138812.5	139202.0	138407.4	139681.9	138709.7	136316.6	135394.2	137796.7
116109.2	8°	115299.0	114806.7	114199.1	116103.0	114417.2	112846.7	111771.7	113669.3
94907.8	9°	94730.2	93879.5	93262.5	93165.9	93427.7	90479.9	91078.2	92514.7
77177.6	10°	77205.7	75809.7	76149.3	76239.7	75953.0	74021.1	74039.8	74535.2
47335.5	12.5°	47167.2	46481.7	46653.1	46746.6	47329.2	46650.0	45690.2	44998.5
29845.3	15°	29645.8	29153.5	30160.0	30836.1	30699.0	30094.5	29642.7	29016.4
19839.7	17.5°	19655.9	20300.9	20304.0	20921.0	20983.3	20378.8	20029.8	19465.8
12903.4	20°	12856.7	13124.7	13682.5	14118.7	14371.1	13909.9	13492.4	13106.0
8045.6	22.5°	8045.6	8513.0	8862.0	9429.1	9659.7	9323.1	9027.1	8712.4
5023.0	25°	4938.9	5272.3	5562.1	6054.4	6369.1	6207.1	5936.0	5714.8
3243.8	27.5°	3293.6	3433.9	3577.2	3916.8	4244.0	4153.7	4044.6	3910.6
2287.2	30°	2321.4	2333.9	2486.6	2676.7	2894.8	2950.9	2901.0	2832.5
1679.5	32.5°	1710.7	1760.6	1832.2	1950.6	2097.1	2231.1	2206.1	2175.0
1283.8	35°	1321.2	1396.0	1455.2	1545.5	1623.4	1751.2	1773.0	1763.7
1056.3	37.5°	1078.1	1143.6	1202.8	1255.8	1321.2	1408.4	1477.0	1480.1
872.5	40°	894.3	953.5	1031.4	1071.9	1118.7	1184.1	1268.2	1274.5
738.5	42.5°	754.1	810.2	888.1	937.9	972.2	1034.5	1118.7	1131.1
632.6	45°	648.1	682.4	763.4	822.6	856.9	897.4	987.8	1000.2
545.3	47.5°	564.0	598.3	648.1	732.3	763.4	800.8	872.5	894.3
483.0	50°	495.4	529.7	573.3	648.1	694.9	726.0	785.2	816.4
420.7	52.5°	439.4	473.6	520.4	579.6	632.6	660.6	716.7	757.2
342.8	55°	367.7	426.9	461.2	514.1	585.8	610.7	654.4	707.3
299.1	57.5°	321.0	370.8	420.7	464.3	536.0	567.1	610.7	660.6
236.8	60°	271.1	317.8	377.0	414.4	483.0	523.5	570.2	617.0
180.7	62.5°	215.0	277.3	317.8	370.8	436.2	489.2	526.6	573.3
140.2	65°	158.9	227.5	274.2	330.3	392.6	448.7	479.9	529.7
99.7	67.5°	115.3	177.6	233.7	286.7	345.9	402.0	433.1	476.8
62.3	70°	90.4	130.9	193.2	239.9	302.3	349.0	383.3	411.3
40.5	72.5°	53.0	99.7	155.8	208.8	264.9	296.0	321.0	345.9
18.7	75°	34.3	77.9	127.8	174.5	215.0	243.0	264.9	286.7
9.3	77.5°	21.8	56.1	102.8	146.5	165.1	199.4	218.1	230.6
6.2	80°	12.5	43.6	90.4	118.4	134.0	155.8	174.5	190.1
6.2	82.5°	9.3	37.4	74.8	99.7	99.7	124.6	134.0	134.0
3.1	85°	6.2	31.2	59.2	93.5	74.8	93.5	87.2	87.2
3.1	87.5°	6.2	21.8	28.0	40.5	34.3	40.5	40.5	46.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
284184.3
275088.6
262331.6
240840.4
214488.2
185646.3
158025.9
131262.4
108250.6
88027.6
71163.7
44577.8
28695.4
19325.6
12972.0
8544.1
5587.0
3832.7
2785.7
2150.1
1732.5
1458.3
1265.1
1121.8
997.1
897.4
819.5
757.2
710.5
663.7
629.4
595.2
539.1
479.9
420.7
352.1
286.7
224.4
171.4
124.6
84.1
46.7
0.0

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